> 0 <
o| |o Intelligenetics
> 0 < FastDB - Fast Pairwise Comparison of Sequences

Release 5.4

by pandya

냽

98 9:37:49-PST.

Results file 13.res made

Number of sequences searched: Number of scores above cutoff: Query sequence being compared: US-08-951-733-13 (1-2848)

Results of the initial comparison of US-08-951-733-13 (1-2848) with: File: embl.seq

w m Q Z m Z C m w SCORE 0 2 12 10 2 C Z 50-10-

	SEARCH STATISTICS	SEAR	
		0	Randomization group
		0	Cutoff score
		0.33	Gap size penalty
32	Window size	1.00	Gap penalty
30	Joining penalty	1	Mismatch penalty
4	K-tuple	Unitary	Similarity matrix

	8042 2	2 %	Number of residues: Number of sequences Number of scores ab	Number Number Number
Total Elapsed 00:00:00.00		CPU 00:00:00.02		Times:
Standard Deviation 8.49	Median 2826	Mean 2831		Scores:

Significance is calculated based The scores below are sorted by initial score. on initial

score.

ident ical sequence to the query sequence was not

The list of best scores

1. AF015950	Sequence Name
1. AF015950 Entered [pandya 24-Dec-98 9:3 4015 2837 2837 0.71 0	Description
4015	Length Score Score Sig. Frame
2837	Score Score
2837	Score
0.71	Sig.
0	Frame

COGGETECCAGCAGGOCGGGGCACTGCCAGCCGAAGTCTGCCGTTGCCCAAGAGGCCCAGGCGTGCCGCT

GCCCCTGAGCCGGAGCGGACGCCCGTTGGGCAGGGGTCCTGGGCCCACCCGGGCAGGACGCGTGGACCGAGT

AF018167 Entered (pandya 24-Dec-98 9:3 2825 2833 -0.71

Initial Score = 2837 Residue Identity = 100% Entered [pandya 24-Dec-98 9:33] US-08-951-733-13 (1-2848) 10 X Entered [pandya 24-Dec-98 2837 Optimized Score = 0 Conservative Substitutions Matches = 2837 Significance s = 2837 Mismatches = 

TGCGGGCCGCCGCTGTACCAGCTCGGGCCTGCCACTCAGGCCCGGGCCCGCGCACACGCTAGTGGACCCCGA TTGGGCTTGGCGCTGGAGGGGCCCGGGGGGGCCCCCGAGGCTTGACAACAACAAGGTGGGAAGCTAC | 100 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 TTCGTGCGGCCCTGGGGCCCCAAGGCTGGCGGCTGGTGCAAGGGGAACCCGGCGCTTTCCGCGCGCTG CACGCGTCCGGGCAGCGCTGCGTGCTGCGCACGTGGGAAGCCCTTGGCCCCGGGCCACCCCCGCGATGCCG 0.71 

CCTGACGGGCTGCGGCCGATTGTGAACATGGACTACGTCGTGGGAGCCAGAACGTTCCGCAGAGAAAAAAGGGG

ACTGTCTGGAGCAAGTTGCAAAGCATTGGAATCAGACAGCACTTGAAGAGGGTGCAGCTGCGGGAGCTGTCG

| 1640 | 1670 | 1680 | 1700 | 1710 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 | 1720 |

| 1520 | 1530 | 1540 | 1550 | 1560 | 1570 | 1580 | 1560 | 1570 | 1580 | 1560 | 1570 | 1580 | 1560 | 1570 | 1580 | 1560 | 1570 | 1570 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 |

| 1450 | 1460 | 1470 | 1480 | 1490 | 1500 | 1510 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |

| 1230 | 1240 | 1250 | 1260 | 1270 | 1280 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 |

 | 1190 | 1100 | 1110 | 1120 | 1130 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1140 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 |

| 940 | 950 | 960 | 970 | 980 | 990 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

CTGCCCAACACGGTGACCGACGCACTGGGGGGAAGCGGGGCGTGGGGGGCTGCTGCTGCGCCGCGTGGGCGAAC GCCCTGAGCCGGAGCGGACGCCGTTGGGCAGGGTCCTGGGCCACCCGGGCAGGACGCTGGACCGAGT TTCGGCTTCGGCGTGCTGGACGGGGGCCCCCCGGAGGCCTTCACCACCAGCGTGCGCAGCTAC GACCGTGGTTTCTGTGTGGGTGTCACCTGCCAGACCCGCCGAAGAAGCCACCTCTTTGGAGGGTGCGCTCTCT TGCGGGCCGCCGCTGTACCAGCTCGGCGCTGCCACTCAGGCCCGGGCCCCGCCACACGCTAGTGGACCCCGA GACGTGCTGGTTCACCTGCTGGCACGCTGCGCGCTCTTTGTGCTGGTTGGCTCCCAGCTGCGCCTACCAGGTTG TTOGGCTTCGCGCTGCTGGACGGGGCCCGCGGGGGCCCCCCGAGGCCTTCACCACCAGCGTGCGCAGCTAC 0.58 

Residue Identity Initial Score ACCCTGGAGGTGCAGAGCGACTACTCCAGCTATGCCCGGACCTCCATCAAGCGAGCCAGTCTCAACCGC Entered AF018167 US-08-951-733-13 GCCCTGCCCTTTCCCTTCCACCCCACCATCCAGGTGGAGACCCTGAGAAAGGACCCTGGGAACCTCTGGG
3810 3820 3830 3840 3850 3860 3870 AAGGGGGCGCCGCCTCTGCCCTCCGAGGCCGTGCAGTGGCTCTGCCACCAAGCATTCCTGCTCAAGCTG
30 3240 3250 3260 3270 3280 3290 3300 GGTGGCACGGCTTTTGTTCAGATGCCGGCCCACGGCCTAT CAAATTGGGGGGAGGTGCTGTGGGAGTAAAATACTGAATATATGAGTTTTTCAGTTTTTCAAAAAAA
50 3960 3970 3980 3990 4000 4010 GCCGAGGCCTGCATGTCCGGCTGAAGGCTGAGTGTCCGGCTGAGGCCTGAGCGAGTGTCCAAGCCAAGGGCTG GTCATCTCTGACACGGCCTCCCCTCTGCTACTCCATCCTGAAAAGCCAAGAACGCAGGGATGTCGCTGGGGGCC GGCTTCAAGGCTGGGAGGAACATGCGTCGCAAACTCTTTGGGGGTCTTGCGGCTGAAGTGTCACAGCCTGTTT GETGGCACGGCTTTTGTTCAGATGCCGGCCCACGGCCTATTCCCCTGGTGCGGCCTGCTGCTGGATACCCGG CACGCGTCCGGGCAGCGCTGCGTCCTGCGCACGTGGGAAGGCCTGGCCCCGGCCAACCCCCGCGATGCCG AATTTGGAGTGACCAAAGGTGTGCCCTGTACACAGGCGAGGACCCTGGACCTGGATGGGGGTCCCTGTGGGT CTCACCAGGAGCCCGGCTTCCACTCCCCACATAGGAATAGTCCATCCCCAGATTCGCCATTGTTCACCCCTC CTCCCGGGGACGACGCTGACTGCCCTGGAGGCCGCAGCCAACCCGGCACTGCCCTCAGACTTCAAGACCATC CTGGATTTGCAGGTGAACAGCCTCCAGACGGTGTGCACCAACATCTACAAGATCCTCCTGCTGCAGGCGTAC GTCCCTGAGTATGGCTGCGTGGTGAACTTGCGGAAGACAGTGGTGAAACTTCCCTGTAGAAGACGAGGCCCTG AGTGTCCAGCACACCTGCCGTCTTCACTTCCCCACAGGCTGGCGCTCGGCTCCACCCCAGGGCCAGCTTTTC ACTCGACACCGTGTCACCTACGTGCCACTCCTGGGGTCACTCAGGACAGCCCAGACGCAGCTGAGTCGGAAG AGGTTTCACGCATGTGTGCTGCAGCTCCCATTTCATCAGCAAGTTTTGGAAGAAGCCCCACATTTTTTCCTGCGC [pandya 24-Dec-98 9:32] CAGGCAGCG-TG-GTCCTGCGCACGTGGGAAGCCCTGGCCCCGGGCCACCCCCGCGATGCCG D Entered (1-2848)2825 Optimized Score \$66 2 Conservative [pandya 24-Dec-98 9:32] Matches Substitutions 2833 Significance 2835 Mismatches 

GTGGCCCAGTGCCTGGTGTGCCCTGGGACGCACGGCCGCCCCCGCCGCCCCCTCCTTCCGCCAGGTG

Tregreegeectreggecceaaggergecgerregreegeageageageageageageagerre

Gaps

AGGITTCACGCATGTGTGCTGCAGCTCCCATTTCATCAGCAAGTTTGGAAGAACCCCCACATTTTTTCCTGCGC

CCGTACATGCGACAGTTCGTGGCTCACCTGCAGGAAGACCAGCCCGCTGAGGGATGCCGTCGTCGTCATCGAGCAG

CTCCTGGGCGCCTCTGTGCTGGGCCTGGACGATATCCACAGGGCCTGGCGCACCTTCGTGCTGCGTGTGCGG CTCCTGGGCGCCTCTGTGCTGGGCCTGGACGATATCCACAGGGCCTGGCGCACCTTCGTGCTGCGTGTGCGG

3130 3140